CLAIMS

1. A method for designing custom, primarily decorative stonework, comprising:

selecting at least one unit of a plurality of units, wherein each unit of the plurality of units at least corresponds to an architectural feature, and wherein the at least one unit comprises a plurality of parts;

selecting at least a primary view of the unit, wherein the primary view depicts an overall view of the at least one unit;

selecting at least one profile of a plurality of profiles, wherein each profile of a plurality of profiles corresponds to at least a cross-sectional view of the at least one unit;

inputting at least one dimension of a plurality of dimensions, wherein the at least one dimension corresponds to at least a physical dimension of the at least one unit;

parametrically calculating one or more other dimensions of the unit based upon the input of at least one dimension and unit size, and further at least determining relative sizes of the plurality of parts of the at least one unit based upon said input dimension; and

generating at least one scaled drawing, wherein the scaled drawing at least has numbers that corresponds to at least one dimension of the plurality of parts of the at least one unit.

2. The method of Claim 1, wherein the step of selecting the at least one unit of the plurality of units further comprises selecting from a database organized by parts, units, and profiles.

3. The method of Claim 1, wherein the step of selecting the at least one unit of the plurality of units further comprises selecting the at least one unit from a database wherein each part of the plurality of parts that comprise each unit of the plurality of units is at least referenced by a part identifier.

4. The method of Claim 1, wherein the step of generating the scaled drawing further comprises generating a scaled drawing that is at least configured to be a Computer Aided Design (CAD) drawings.

5. The method of Claim 4, wherein the step of generating at least one scaled drawing further comprises:

accessing a computer database that is at least stored in a computer memory;

retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

retrieving CAD drawings for each of the plurality of part identifiers;

rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

rendering the CAD drawings; and

plotting or printing the CAD drawings.

6. A method for electronically custom designing primarily decorative stonework, comprising:

selecting at least one unit from a plurality of units from a computer database stored in a computer memory, wherein the plurality of units are organized such that a plurality of parts that comprise each unit is logically associated to each of the respective units;

selecting at least one profile of a plurality of profiles, wherein each one profile of the plurality of

profiles corresponds to at least a primary cross-sectional view of the at least one unit;

entering physical dimension data of the at least one unit into a computer that is at least coupled to the computer memory, wherein the physical dimension data is at least configured to be unit-specific dimensional measurements;

calculating the physical dimensions of each of the parts comprising the at least one unit, wherein a plurality of parametric equations are at least employed and wherein the plurality of parametric equations are at least configured to utilize summing means and squaring means;

accessing the computer database that is at least stored in a computer memory;

retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

retrieving CAD drawings for each of the plurality of part identifiers;

rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

rendering the CAD drawing; and

plotting or printing the CAD drawings.

7. A computer program product for designing custom, primarily decorative stonework, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer program code for selecting at least one unit of a plurality of units, wherein each unit of the plurality of units at least corresponds to an architectural feature, and wherein the at least one unit of the plurality of units comprises a plurality of parts;

computer program code for selecting at least a primary view, wherein the primary view depicts an overall view of the at least one unit;

computer program code for selecting at least one profile of a plurality of profiles, wherein each profile of the plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

computer program code for inputting at least one dimension of a plurality of dimensions, wherein the at least one dimension is at least a physical dimension of the at least one unit;

computer program code for parametrically calculating one or more other dimensions of the unit based upon the input of

at the least one dimension, and further at least determining relative sizes of the plurality of parts of the at least one unit based upon said input dimension; and

computer program code for generating at least one scaled drawing, wherein the scaled drawing at least has identifiers that correspond to the plurality of parts of the at least one unit.

8. The computer program product of Claim 7, wherein the computer program code for selecting the at least one unit of the plurality of units further comprises computer program code for selecting from a database organized by part, units, and profiles.

9. The computer program product of Claim 7, wherein the computer program code for selecting the at least one unit of the plurality of units further comprises computer program code for selecting the at least one unit from a database wherein each part of the plurality of parts that comprise each unit of the plurality of units is at least referenced by a part identifier.

10. The computer program product of Claim 7, wherein the computer program code for generating the scaled drawing further comprises computer program code for generating a scaled drawing that is at least configured to be a CAD drawing.

11. The computer program product of Claim 10, wherein the computer program code for generating at least one scaled drawing further comprises:

computer program code for accessing a computer database that is at least stored in a computer memory;

computer program code for retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

computer program code for retrieving CAD drawings for each of the plurality of part identifiers;

computer program code for rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

computer program code for rendering the CAD drawing; and

computer program code for plotting or printing the CAD drawings.

12. A computer program product for electronically custom designing primarily decorative stonework, the computer program, product having a medium with a computer program embodied thereon, the computer program comprising:

computer program code for selecting at least one unit from a plurality of units from a computer database stored in a computer memory, wherein the plurality of units are organized such that a plurality of parts that comprise each unit is logically associated to each of the respective units;

computer program code for selecting at least one profile of a plurality of profiles, wherein each profile of a plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

computer program code for entering physical dimension data of the at least one unit into a computer that is at least coupled to the computer memory, wherein the physical dimension data is at least configured to be unit-specific dimensional measurements;

computer program code for calculating the physical dimensions of each of the parts comprising the at least one unit, wherein a plurality of parametric equations are at least employed and wherein the plurality of parametric equations are

at least configured to utilize summing means and squaring means;

computer program code for accessing the computer database that is at least stored in a computer memory;

computer program code for retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

computer program code for retrieving CAD drawings for each of the plurality of part identifiers;

computer program code for rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

computer program code for rendering the CAD drawing; and

computer program code for plotting or printing the CAD drawings.

13. A processor for designing custom, primarily decorative stonework, the processor including a computer program comprising:

computer program code for selecting at least one unit of a plurality of units, wherein each unit of the plurality of units at least corresponds to an architectural feature, and

wherein each unit of the plurality of units comprises a plurality of parts;

computer program code for selecting at least a primary view, wherein the primary view at least depicts an overall view of the at least one unit;

computer program code for selecting at least one profile of a plurality of profiles, wherein each profile of a plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

computer program code for inputting at least one dimension of a plurality of dimensions, wherein the at least one dimension is at least a physical dimension of the at least one unit;

computer program code for parametrically calculating at least one or more other dimensions of the unit based upon the input of at least one dimension corresponding to unit size, and further at least determining relative sizes of the plurality of parts of the at least one unit; and

computer program code for generating at least one scaled drawing, wherein the scaled drawing at least has identifiers that correspond to the plurality of parts of the at least one unit.

14. The computer program code of Claim 13, wherein the computer program code for selecting the at least one unit of the plurality of units further comprises computer program code for selecting from a database organized by part, units, and profiles.

15. The computer program code of Claim 13, wherein the computer program code for selecting the at least one unit of the plurality of units further comprises computer program code for selecting the at least one unit from a database wherein each part of the plurality of parts that comprise the at least one unit of the plurality of unit is at least referenced by a part identifier.

16. The computer program code of Claim 13, wherein the computer program code for generating the scaled drawing further comprises computer program code for generating a scaled drawing that is at least configured to be a CAD drawing.

17. The computer program code of Claim 16, wherein the computer program code for generating at least one scaled drawing further comprises:

computer program code for accessing a computer database that is at least stored in a computer memory;

computer program code for retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

computer program code for retrieving CAD drawings for each of the plurality of part identifiers;

computer program code for rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

computer program code for rendering the CAD drawing; and

computer program code for plotting or printing the CAD drawings.

18. A processor for electronically custom designing primarily decorative stonework, the processor including a computer program comprising:

computer program code for selecting at least one unit from a plurality of units from a computer database stored in a

computer memory, wherein the plurality of units are organized such that a plurality of parts that comprise each unit is logically associated to each of the respective units;

computer program code for selecting at least one profile of the plurality of profiles, wherein each profile of a plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

computer program code for entering physical dimension data of the at least one unit into the computer that is at least coupled to the computer memory, wherein the physical dimension data is at least configured to be unit-specific dimensional measurements;

computer program code for calculating the physical dimensions of each of the parts comprising the at least one unit, wherein a plurality of parametric equations are at least employed and wherein the plurality of parametric equations are at least configured to utilize summing means and squaring means;

computer program code for accessing the computer database that is at least stored in a computer memory;

computer program code for retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

computer program code for retrieving CAD drawings for each of the plurality of part identifiers;

computer program code for rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

computer program code for rendering the CAD drawing; and

computer program code for plotting or printing the CAD drawings.

19. An apparatus for custom designing primarily decorative stonework, comprising:

a unit selector, wherein the unit selector is at least configured to select at least one unit of a plurality of units, and wherein each unit of the plurality of units at least corresponds to a primarily decorative architectural feature, and wherein the at least one unit of the plurality of units comprises a plurality of parts;

a primary view selector, wherein the primary view selector is at least configured to select at least a primary view, and wherein the primary view at least depicts an overall view of the at least one unit;

a profile selector, wherein the profile selector is at least configured to select at least one profile of a plurality

of profiles, and wherein the one profile of a plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

a data input channel, wherein the data input channel is at least configured to receive at least one dimension of a plurality of dimensions, and wherein the at least one dimension is at least a physical dimension of the at least one unit;

a calculation unit, wherein the calculation unit is at least configured to parametrically calculate one or more other dimensions of the unit based upon the input at least one dimension corresponding to the unit size, and further at least determining relative sizes of the plurality of parts of the at least one unit based upon the input dimension; and

a drawing generator, wherein the drawing generator is at least configured to generate at least one scaled drawing, and wherein the scaled drawing at least has identifiers that corresponds to the plurality of parts of the at least one unit.

20. The apparatus of Claim 19, wherein the unit selector further comprises computer program code for selecting from a database organized by parts, units, and profiles.

21. The apparatus of Claim 19, wherein the unit selector further comprises computer program code for selecting the at least one unit from a database wherein each part of the plurality of parts that comprise each unit of the plurality of units is at least referenced by a part identifier.

22. The apparatus of Claim 21, wherein the drawing generator further comprises computer program code for generating scaled drawings that are at least configured to be CAD drawings.

23. The apparatus of Claim 22, wherein the drawing generator further comprises:

computer program code for accessing a computer database that is at least stored in a computer memory;

computer program code for retrieving a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

computer program code for retrieving CAD drawings for each of the plurality of part identifiers;

computer program code for rescaling the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

computer program code for rendering the CAD drawing; and

computer program code for plotting or printing the CAD drawings.

24. An apparatus for electronically custom designing primarily decorative stonework, comprising:

a unit selector, wherein the unit selector is at least configured to select at least one unit from a plurality of units from a computer database stored in a computer memory, and wherein the plurality of units are organized such that a plurality of parts that comprise each unit is logically associated to each of the respective units;

a profile selector, wherein the profile selector is at least configured to select at least one profile of a plurality of profiles, and wherein each profile of a plurality of profiles corresponds to at least a primary cross-sectional view of the at least one unit;

an data input channel, wherein the data input channel is at least configured to receive physical dimension data of the at least one unit into the computer that is at least coupled

to the computer memory, and wherein the physical dimension data is at least configured to be unit-specific dimensional measurements;

a calculation unit, wherein the calculation unit is at least configured to calculate the physical dimensions of each of part comprising the at least one unit, and wherein a plurality of parametric equations are at least employed and wherein the plurality of parametric equations are at least configured to utilize summing means and squaring means;

a pointer, wherein the pointer is at least configured to access the computer database that is at least stored in a computer memory;

a data retriever, wherein the data retriever is at least configured to retrieve a plurality of part identifiers of the plurality of parts that comprise the at least one unit;

a drawing retriever, wherein the drawing retriever is at least configured to retrieve CAD drawings for each of the plurality of part identifiers; and

a CAD unit, wherein the CAD unit is at least configured to:

rescale the CAD drawings for each part of the plurality of parts that comprise the at least one unit;

render the CAD drawing; and

plot or print the CAD drawings.